



SEQUENCE LISTING

<110> WEIDANZ, JON A.
CARD, KIMBERLYN F.
WONG, HING C.

<120> FUSION PROTEINS COMPRISING BACTERIOPHAGE COAT PROTEIN
AND A SINGLE-CHAIN T-CELL RECEPTOR

<130> 46745(1758)

<140> 08/813,781

<141> 1997-03-07

<160> 130

<170> PatentIn Ver. 2.1

<210> 1

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 1

cggccatggc ccagctgcag actagtgc

28

<210> 2

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 2

ggccgcacta gtctgcagct gggccatggc cggct

35

<210> 3

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 3

ctcgcgccc agccggccat ggccgaggct gcagtcaccc aaagc

45

<210> 4

<211> 32

<212> DNA

<213> Artificial Sequence

RECEIVED
JAN 22 2002
TECH CENTER 1600/2900

G1

F1

~~XXXXXXXXXX~~

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 4

cttcctcact agtacagtct gctcggcccc ag

32

<210> 5

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 5

gatggcctcg aggagcaggt ggagcagctt

30

<210> 6

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 6

gactagcccg ggacagggaa cgtctgaact ggg

33

<210> 7

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 7

ctcgcggccc agccggccat ggccgagcag gtggagcagc ttcct

45

<210> 8

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 8

ctcgcgctcg aggaggctgc agtcacccaa agc

33

<210> 9
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 9
 ctgcgccccg ggacagtctg ctcgccccca ggc

33

<210> 10
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 10
 ctgcgacta gtacagggaa cgtctgaact ggg

33

<210> 11
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 11
 ctgcgccccg gggtctgctc ggccccaggc

30

<210> 12
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 12
 ctgcgacta gtgggaacgt ctgaactggg

30

<210> 13
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 13
ctcgcgacta gtgtctgctc ggccccaggc 30

<210> 14
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 14
ctcgcgcccc ggagggaacgt ctgaactggg 30

<210> 15
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 15
ctcgcgctcg agcgaggctg cagtcaccca aagc 34

<210> 16
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 16
ggggggcccc gggtctgaggg tgacgatccc gcaaaag 37

<210> 17
<211> 67
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 17
ctagtctggg ggcgggtggca gcggcggtgg tggttccggt ggcggcggtt ctggcggtgg 60
cggttcc 67

<210> 18
<211> 67
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 18

tcgaggaacc gccaccgcca gaaccgccgc caccggaacc accaccgccg ctgccaccgc 60
caccaga 67

<210> 19

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 19

gtgctcacta gtgtttggct ctacagtga tttggtg 37

<210> 20

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 20

gatggctcga gtgagcaggt ggagcagctt cct 33

<210> 21

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 21

ctagtccccg ggtacaactg tgagtctggt tcc 33

<210> 22

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 22

ctcgagacta gttacaactg tgagtctggt tcc 33

<210> 23
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 23
 cggccgagga agaagagtac atcccgatgg atc

33

<210> 24
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 24
 gggccatcca tcgggatgta ctcttcttcc tcggccggct

40

<210> 25
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 25
 ccggggagga agaagagtac atcccgatgg attgag

36

<210> 26
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 26
 aattctcaat ccacgcggat gtactcttct tcctcc

36

<210> 27
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 27
gcccgggact agtgc

15

<210> 28
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 28
ggccgcacta gtcccgggct gca

23

<210> 29
<211> 75
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 29
ctagtccccg ggcatcaag cggcgccttc catcgcatg tacttttctt cctctacaac 60
tgtgagtctg gttcc 75

<210> 30
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 30
ctagtccccg ggcatcaag cggcgccttc catcgcatg tacttttctt cctcgtctgc 60
tcggccccag gc 72

<210> 31
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 31
ctagtccccg ggtacaactg tgagtctggt tcc

33

<210> 32
<211> 45

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

 <400> 32
 ccggggagga agaagagtac atgccgatgg aaggcgccgc ttagc 45

 <210> 33
 <211> 45
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

 <400> 33
 cctccttctt ctcatgtacg gctaccttcc gcggcgaatc gggcc 45

 <210> 34
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

 <400> 34
 gatcagcccg gggaggctgc agtcacccaa agc 33

 <210> 35
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

 <400> 35
 ctagtccccc ggacagtctg ctcgccccca ccg 33

 <210> 36
 <211> 42
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

 <400> 36
 ccggggagga agaagagtac atgccgatgg aaggcgccgc tc 42

<210> 37
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 37
 cctccttctt ctcatgtacg gctaccttcc gcggcgaggg cc 42

<210> 38
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 38
 cgccgctcac catcaccatc atcactgatg ac 32

<210> 39
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 39
 ggcgagtggg agtggttagta gtgactactg ggcc 34

<210> 40
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 40
 gatcagggcg ccgctactgt tgaaagttgt tta 33

<210> 41
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic

oligonucleotide

<400> 41
ctgatacggat cctcattaaa gccagaatgg aaa 33

<210> 42
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 42
ccgggctaag cggcgccttc catcgcatg tactcttctt cctcc 45

<210> 43
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 43
ccgggagcgg cgctttccat cggcacgtac tcttcttctt cc . 42

<210> 44
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 44
ccgggtcatc agtgatgatg gtgagcgg 28

<210> 45
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 45
gctcgagctt actcc 15

<210> 46
<211> 14
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 46

cgctcattag gcgg

14

<210> 47

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 47

gtgtacttct gtgcc

15

<210> 48

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 48

ctgtgagtct ggttc

15

<210> 49

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 49

gcaggttctg ggttc

15

<210> 50

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 50

catttactaa cgtctgg

17

<210> 51
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 51
 cgcttggtac tgagc 15

<210> 52
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 52
 cctcaacctc ctgtc 15

<210> 53
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 53
 cttattccgt ggtgtc 16

<210> 54
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 54
 ccaccctcag aaccg 15

<210> 55
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 55
gaattttaccg ttccag 16

<210> 56
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 56
cttttagcgtc agactg 16

<210> 57
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 57
gaaacgcaaa gacacc 16

<210> 58
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 58
ggggggcccg ggctgctgag ggtgacgatc ccgcaaaaag 39

<210> 59
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 59
gggggggaat tctattagct tgctttcgag gtgaatttc 39

<210> 60
<211> 41
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 60

gagcacggcc cagccggcca tggccgaggc tgcagtcacc c

41

<210> 61

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 61

gagcacgaga ctagtagcac gaacaacacg gtcgtcgatc ggttccggcg ggtttggtc 60
tacagtgag 69

<210> 62

<211> 86

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 62

gatccctcct ggacacgcag gatggaagga agctgctcca cctgctcagc acgaacaaca 60
cggtcgtcga tcggttccgg cggggc 86

<210> 63

<211> 86

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 63

catggccccg ccggaaccga tcgacgaccg tggtgttcgt gctgagcagg tggagcagct 60
tcctcccatc ctgcgtgtcc aggagg 86

<210> 64

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 64

gaggtggaat tctattaaga ctccttatta cgcagtatg

39

<210> 65

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 65

gaggaggtgg tgactagtag caggttctgg tgggttctgg atgtttggct ctacagtgag 60

<210> 66

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 66

gaggaggtgg tgactagaag caggttctgg gttctggatg ttgggtccta cagtgag 57

<210> 67

<211> 51

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 67

gaggtggaat tctattagtg atgatggtga tggtagagact ccttattacg c 51

<210> 68

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 68

gaggtgcccg ggactgttga aagttgttta gc 32

<210> 69

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 69
gaggtggaat tctattagtg atgatggtga tggtaggcttg ctttcgagg 49

<210> 70
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 70
gaggtggaat tctattagct tgctttcgag g 31

<210> 71
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 71
gaggtgcccg gggctgaggg tgacgatccc g 31

<210> 72
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 72
aattctcatc agtgatgatg gtgatggtgc 30

<210> 73
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 73
ccgggcacca tcaccatcat cactgatgag 30

<210> 74
<211> 56

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 74

gtggagcccg ggttccatcg gcatgtactc ttcttctct acaactgtga gtctgg 56

<210> 75

<211> 64

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 75

gaggtggaat tctcaccogg gttccatcgg catgtactct tcttcctcgt ctgctcggcc 60
ccag 64

<210> 76

<211> 61

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 76

gaggtgctgc aggttccatc ggcattgtact cttcttctc gtctagacgg cccaggcct 60
c 61

<210> 77

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 77

gtggagctgc aggttctaga cggccccagg cctc 34

<210> 78

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 78
gtggagctgc aggtgatcca cccctccag atccacccc tccgtctgct cggccccag 59

<210> 79
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 79
gtggagaagc ttgcccagc aggtggagca gc 32

<210> 80
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 80
gggggggagg tgctggagcg aggcagcagt cacc 34

<210> 81
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 81
gagcccacta gtttggtctt acagtgagtt tgggtg 35

<210> 82
<211> 65
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 82
ctagaccagc aaatctgcac ccacagaatc cctaggacag ctcccagggt cctctgcatg 60
gtgga 65

<210> 83
<211> 65
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 83

agcttcacc atgcagagga acctgggagc tgcctaggg attctgtggg tgcagatttg 60
ctggt 65

<210> 84

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 84

gatcggctcta gaggtgagca ggtggagcag cttcc 35

<210> 85

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 85

gcctggagac tcagccatg 19

<210> 86

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 86

gaagtacatg gctgagtctc c 21

<210> 87

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 87

gatgaacggt ccagattcca tgg 23

<210> 88
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 88
 cccaaatcaa tgtgccgaaa ac 22

<210> 89
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 89
 ctagaacaca ggagactgga gagcacgaag aagagcctgg agcccatggt gga 53

<210> 90
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 90
 gctctccttg taggcctgag 20

<210> 91
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 91
 gtacttctgt gccagcggtg 20

<210> 92
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 92
gagcaattat agctactgcc tg 22

<210> 93
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 93
ggtctggagg ccttgatatcc 20

<210> 94
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 94
agcttcacc atgggctcca ggctcttctt cgtgctctcc agtctcctgt gtt 53

<210> 95
<211> 65
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 95
tcgaggaacc gccaccgcca gaaccgccgc caccggaacc accaccgccg ctgccaccgc 60
cacca 65

<210> 96
<211> 65
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 96
ctagtgggtg cggtggcagc ggcggtggtg gttccggtgg cggcggttct ggcggtggcg 60
gttcc 65

<210> 97
<211> 8

<212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 97
 ccaccatg

8

<210> 98
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 98
 Glu Glu Glu Glu Tyr Met Pro Met Glu
 1 5

<210> 99
 <211> 63
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 99
 atgaaatacc tgctgccgac cgcagctgct ggtctgctgc tgctggcggc ccagccgatg 60
 gcc 63

<210> 100
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 100
 Met Lys Tyr Leu Leu Pro Thr Ala Ala Leu Leu Leu Ala Ala
 1 5 10 15

Gln Pro Ala Met
 20

<210> 101
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 101

gccggccatg gccrgtgctg tcrtctctc

29

<210> 102

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 102

gccggccatg gccgamrccm argtsaccc

29

<210> 103

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 103

gccggccatg gccgatgtga aagtaaccc

29

<210> 104

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 104

gccggccatg gccgamrcwg mcrtymcc

29

<210> 105

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 105

gccggccatg gccarkgctg gdgtcactc

29

<210> 106

<211> 29
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 106

gccggccatg gccaatgccg gcgtcatgc

29

<210> 107

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 107

gccggccatg gccgrtrctg gagtctccc

29

<210> 108

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 108

gccggccatg gccgatgctr gartcaccc

29

<210> 109

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 109

gccggccatg gccgattctg gagtcacac

29

<210> 110

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 110

gccggccatg gccgaygctg gwggttatcc

29

<210> 111

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 111

gccggccatg gccgatgctg ryrttaycc

29

<210> 112

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 112

gccggccatg gccgaagctg gagttactca g

31

<210> 113

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 113

gccggccatg gccgatgcta ctattcatca atggcc

36

<210> 114

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 114

gtgcccaccg ccacccacct tggtcagtc c

31

<210> 115

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 115

gctgccaccg ccacccacgt tttcaggtcc

30

<210> 116

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 116

ggaggcggcg gttctgctaa gagaccacmc agcc

34

<210> 117

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 117

ggaggcggcg gttctcagaa grtaactcaa rcsc

34

<210> 118

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 118

ggaggcggcg gttctcagtc kgtgasccag c

31

<210> 119

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 119

ggaggcggcg gttctcagag agtgactcag cc

32

<210> 120

<211> 35

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

 <400> 120
 ggaggcggcg gttctcwgma sgtgraacaa rgtcc 35

<210> 121
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

 <400> 121
 ggaggcggcg gttctcagca agttaagcaa aattc 35

<210> 122
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

 <400> 122
 ggaggcggcg gttctgagar tgtggrgcwg catc 34

<210> 123
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

 <400> 123
 ggaggcggcg gttctaakga rgtggmgcag rrtyc 35

<210> 124
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

 <400> 124
 ggaggcggcg gttctcagct gctggagcag ag 32

<210> 125
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 125
 ggaggcggcg gttctcaama grkagaasag ratyc 35

<210> 126
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 126
 ggaggcggcg gttctggaca aarcmttgar cag 33

<210> 127
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 127
 ggaggcggcg gttctaagga ccaagtgttt cag 33

<210> 128
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 oligonucleotide

<400> 128
 ttcatagact agtagggtca gggttctgg 29

<210> 129
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic

oligonucleotide

<400> 129

ggtaggcggtg gcagcggcgg tggtaggtcc ggagggcggc gttct

45

<210> 130

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antisense
synthetic oligonucleotide

<400> 130

agaaccgccg cctaccggaa ccaccaccgc ccgctgccac cgccacc

47

F'
cont